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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/665,679	09/20/2000		Yuegang Zhang	DP-664 US	9832
7	'590	04/30/2002			
McGinn & Gibb PC 1701 Clarendon Boulevard Suite 100 Arlington, VA 22209			EXAMINER		
				HENDRICKSO	HENDRICKSON, STUART L
				ART UNIT	PAPER NUMBER
				1754	Ł

DATE MAILED: 04/30/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s) WON 9					
Office Action Summary	Examiner (Group Apr Unit					
	Langika	~ 1189					
-The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address -							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE 3	_ MONTH(S) FROM THE MAILING DATE					
 Extensions of time may be available under the provisions of 37 CFR 1. from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply 16 NO period for reply is specified above, such period shall, by default, Failure to reply within the set or extended period for reply will, by statuent Any reply received by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b). 	ly within the statutory mining expire SIX (6) MONTHS from the cause the application to	num of thirty (30) days will be considered timely. n the mailing date of this communication. become ABANDONED (35 U.S.C. § 133).					
Status A R sponsive to communication(s) filed on 3/15/02							
☐ This action is FINAL .		·					
☐ Since this application is in condition for allowance except f accordance with the practice under Ex-parte Quayle, 1935.	C.D. 1 1; 453 O.G. 213.						
Disposition of Claims Claim(s) Of the above claim(s)							
∑ Claim(s)		is/are pending in the application.					
Of the above claim(s)		is/are withdrawn from consideration.					
		IC/2M2 SIIOWAA					
X Claim(s) 13-18		is/are rejected.					
☐ Claim(s)		is/are objected to.					
□ Claim(s)							
Application Papers		requirement					
☐ The proposed drawing correction, filed on	• •	disapproved.					
☐ The drawing(s) filed on is/are objected to by the Examiner							
☐ The specification is objected to by the Examiner.							
☐ The oath or declaration is objected to by the Examiner.							
Pri rity under 35 U.S.C. § 119 (a)-(d)		·					
☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)–(d).							
□ All □ Some* □ None of the:							
☐ Certified copies of the priority documents have been received.							
☐ Certified copies of the priority documents have been received in Application No							
□ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))							
*Certified copies not received:	·						
Atta hment(s)							
☐ Information Disclosure Stat m nt(s), PTO-1449, Paper No(s	s) 🗆 🗆	t rvi w Summary, PTO-413					
Notice of Ref rence(s) Cited, PTO-892	□ No	☐ Notice of Informal Patent Application, PTO-152					
☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	□ 0 1	ther					
Office Action Summary							

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The election without traverse is noted. Claims 1-12 are withdrawn from consideration.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- A) The word 'membered' is misspelled throughout the claims.
- B) In claim 15, 'used as' is unclear and unnecessary to the claim.
- C) In claim 14, 'fullerene bonds' is unclear what is meant. Bonds are single bonds, double bonds or triple bonds.
- D) In the claims 'carbon molecules' is unclear as to whether carbon materials are meant; 'molecules' means non-carbon atoms are present. C60 is strictly speaking not a 'molecule'.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 13, 14 and 16 are rejected under 35 U.S.C. 102(b) as being anticipated by Roberts & Caserio.

Pg. 1505 of the book depicts molecules which contain 5-membered carbon rings, and some contain metal (catalyst) atoms. The intended use 'target ... ablation' does not limit the product claimed. The materials have single bonds and double bonds, just like fullerenes.

Claims 13 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Yokogawa et al.

The reference teaches in column 4 a fullerene material having a pentagon of carbon atoms.

Claims 13-18 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Thess et al. article.

Thess teaches on the fourth page 5-member carbon rings, such as metallated C60. While not using the same verbiage, the material appears to be the same or can be chosen to be the same by altering the metal content of the formula.

Any inquiry concerning this communication should be directed to examiner Hendrickson at telephone number (703) 308-2539.

Stuart Hendrickson

examiner Art Unit 1754